## WHAT IS CLAIMED IS:

1. A process for forming an article, comprising

heating a reinforced resinous substrate to a thermoforming temperature to form a heated substrate;

contacting a surface of the heated substrate with a surface of shaped surface component, wherein the heated substrate has a sufficient concentration of heated resin at the surface thereof for bonding the heated substrate to the shaped surface component; and

thermoforming the heated substrate at a pressure less than or equal to about 500 psi (3447 kPa) to provide a bond at an interface between the surface of the thermoformed substrate and the surface of the shaped surface component.

- 2. The process of claim 1, wherein a tie layer is disposed at the interface.
- 3. The process of claim 1, wherein the shaped surface component comprises a film layer, and further wherein the interface is between the surface of the thermoformed substrate and a surface of the film layer.
  - 4. The process of claim 3, wherein a tie layer is disposed at the interface.
- 5. The process of claim 1, wherein the shaped surface component comprises a film layer and a first compatible layer, and further wherein the interface is between the surface of the thermoformed substrate and a surface of the first compatible layer opposite the film layer.
  - 6. The process of claim 5, wherein a tie layer is disposed at the interface.
- 7. The process of claim 1, comprising forming the shaped surface component by thermoforming in a mold.
- 8. The process of claim 7, wherein the thermoformed surface component is cooled in the mold, then contacted with the heated substrate without removal from the mold.

- 9. The process of claim 7, further comprising removing the thermoformed surface component from the mold, and placing the thermoformed surface component in or on a second mold prior to contacting with the heated substrate.
- 10. The process of claim 1, wherein a surface of the shaped surface component opposite the heated substrate is adjacent a mold form for maintaining the shaped surface component at a temperature below the thermoforming temperature.
- 11. The process of claim 1, wherein thermoforming is at a pressure about 1 (6.9 kPa) to about 500 psi (3447 kPa)
- 12. The process of claim 1, wherein thermoforming is at a pressure of about 10 (69 kPa) to about 100 psi (690 kPa).
- 13. The process of claim 1, wherein a surface of the heated substrate opposite the shaped surface component is in contact with a conformable pressure-transmitting medium, and further comprising thermoforming the heated substrate by transmitting a thermoforming pressure through the medium.
- 14. The process of claim 1, wherein a surface of the heated substrate opposite the shaped surface component is in contact with a mold form, and further comprising thermoforming the heated substrate by transmitting a thermoforming pressure through the mold form.
- 15. The process of claim 1, further comprising a balancing layer positioned adjacent the heated substrate on a side opposite the film layer.
- 16. The process of claim 1, wherein the surface component or substrate comprises a polycarbonate, acrylonitrile-styrene-acrylic, acrylic, acrylonitrile-butadiene-styrene, polybutylene terephthalate, polyethylene terephthalate, polyolefin, arylate polyester, or a blend, alloy, or copolymer comprising at least one of the foregoing resins.
- 17. The process of claim 1, wherein the surface component comprises a polymer comprising units of an arylate polyester.

- 18. The process of claim 1, wherein the surface component comprises a film layer comprising arylate polyester units and a first compatible layer comprising an additive for providing an aesthetic effect.
- 19. The process of claim 18, wherein the film layer comprises a block copolyester carbonate comprising arylate polyester-containing block segments in combination with organic carbonate block segments and the first compatible layer comprises a colorant.

## 20. A process for forming an article, comprising

thermoforming a reinforced resinous substrate to provide a shaped reinforced resinous substrate;

thermoforming a surface component, wherein the shape of the surface component substantially matches the shape of the reinforced resinous substrate; and

joining a surface of the shaped reinforced resinous substrate with a surface of the surface component at an interface.

- 21. The process of claim 20, wherein the joining is by thermoforming or use of an adhesive.
  - 22. An article made by the process of claim 1.
  - 23. An article made by the process of claim 20.
  - 24. A shaped multilayer article comprising:
  - a shaped surface component; and

a reinforced resinous substrate, shaped and joined to the surface component at an interface by thermoforming.

25. The article of claim 24, wherein the surface component comprises a film layer and a first compatible layer, wherein the interface is between the substrate and a side of the compatible layer opposite the film layer.

- 26. The article of Claim 24, wherein the surface component or substrate comprises a polycarbonate, acrylonitrile-styrene-acrylic, acrylic, acrylonitrile-styrene-styrene, polybutylene terephthalate, polyethylene terephthalate, polyolefin, arylate polyester, or a blend, alloy, or copolymer comprising at least one of the foregoing resins.
- 27. The article of claim 24, wherein a surface of the film layer opposite the first compatible layer comprises a weatherable resorcinol polyester resin having a "Class A" finish.